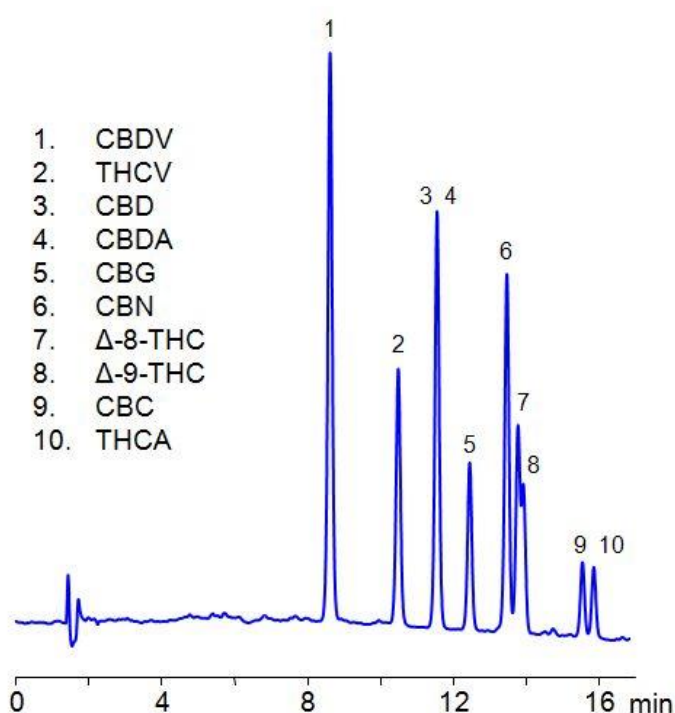


Cannabis Analysis by HPLC

Simplified Cannabis Analysis

- Easy sample preparation
- Method developed by people who understand chromatography
- No chemical experience is required for instrument user
- User friendly, step by step instructions
- User friendly software



Column:	Cannsep A
Column size:	4.6 × 150 mm, 5 μm
Mobile phase:	MeCN gradient 50-70 in 20 min
Buffer:	H ₂ SO ₄ 0.1 %
Flow rate:	1 mL/min
UV detection:	210 nm

Available from

LCC Engineering & Trading GmbH

Steinbruchstrasse 4, CH-4622 Egerkingen, Switzerland

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info@chemsupply.ch

www.chromatographyshop.com



Analysis by HPLC is the most reliable and accurate method of measuring active components in Cannabis products. SIELC has developed special line of columns – Cannsep, which allows to resolve most of the compounds attributed to cannabis physiological properties. Three columns, Cannsep A, Cannsep B, and Cannsep C resolved all the cannabinoids providing different and significantly orthogonal selectivity.

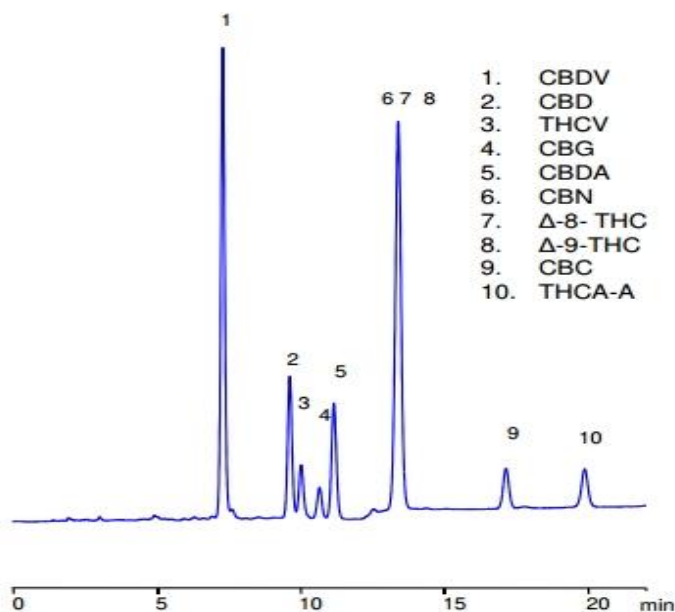
The liquid chromatography does not require high temperature which is the case in gas chromatography (GC) analysis. No thermo-degradation of compounds occurs during the test.

To setup your own HPLC test capability, a simple HPLC system requires including a high pressure pump, injector, and UV detector.

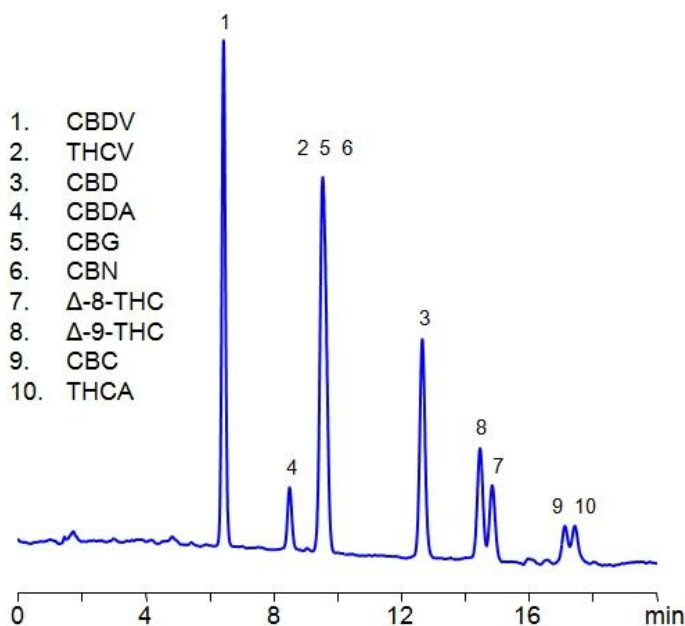
SIELC provides all these components at a reasonable cost.

You can quickly setup your own chemical lab for analysis of marijuana products using our specific columns and HPLC method tailored for this analysis.

SIELC has developed 3 complementary columns with stationary phases offering different selectivity to different cannabinoids.



Column: Cannsep B
Column size: 150 x 4.6 mm, 5 μ m
Mobile phase: MeCN gradient 50-70 in 25 min
Buffer: H₂SO₄ 0.1%
Detection: UV 210 nm



Column: Cannsep C
Column size: 4.6 x 150 mm, 5 μ m
Mobile phase: MeCN gradient 60-80 in 20 min
Buffer: H₂SO₄ 0.1 %
Flow rate: 1 mL/min
UV detection: 210 nm

Individual columns and full set of columns can be [purchased](#) from SIELC directly.

Columns are available in all standard dimensions and with particles 5 μ m for regular HPLC and 3 μ m for UPLC (Ultra-high Pressure Liquid Chromatography).

If you contract out this test you will pay over \$100 per sample. The Cannsep columns are the only consumable that you will ever need to be able to perform such analysis in your own shop or home. One column can be used for a multitude of tests.

The incomplete list of compounds that can be analyzed by this HPLC method includes:

1. Cannabidivarin (CBDV)
2. Tetrahydrocannabivarin (THCV)
3. Cannabidiol (CBD)
4. Cannabidiolic Acid (CBDA)
5. Cannabigerol (CBG)
6. Cannabinol (CBN)
7. Delta -8-Tetrahydrocannabinol, Δ -8-THC
8. Delta-9-Tetrahydrocannabinol, Δ -9-THC
9. Cannabichromene (CBC)
10. Tetrahydrocannabinolic acid (THCA)